

U. S. DEPARTMENT OF AGRICULTURE
BUREAU OF BIOLOGICAL SURVEY

Form Bi-689

FIELD DIARY

Mr. _____

Vernon Bailey

Minnesota, _____
(Official title.)

Period, May 30 to Aug. 7, 1932

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Dr. R. G. Grune, Mallard Hall, 219 M.

Dr. Henrici, Cushing, Minn. R.D.

Hilman Lake, - Carlton

Gro H. Johnson, Waskish, Minn. (trapper)

R. F. Smith, fire guard, Waskish, Minn.,
home at 923, W. ^{Third} Hegert St. Duluth

Walter Hunsel, Waskish, Minn. Game Warden

Oliver Larsen, Fire guard, near Duluth.
summer at Schroeder,

Paul Newson, Schroeder, or Grand Marais

R. A. Zeller, Supervisor, Ely, Minn.

A. J. Allen, Beartooth Lake Camp, Box 337,

Grand Marais, Seed bags full,
mushrooms, Taxidermy, live trapping.

Sam Anderson, Hutchinson, Minn.

May 30 Monday, 1932

Left Washington 8 PM, PTO
for St. Paul, Minnesota to go with
C. M. Aldous and others over the
northern part of the state to study
game conditions, mainly to get
at methods of study and to
pass on to younger men the knowledge
and experiences of my 50 years of
field work.

May 31 - A pleasant morning
in southeast Ohio, enroute
to Chicago where due at 2 PM.
Went to Field Museum on arrival
and back to C & NW station in
time for 8:20 train to St Paul.
A pleasant day, good rains
and beautiful country.

June 1 1932

Arrived St. Paul 7:25 AM
after a good breakfast on
train and went to University
Farm School where I met
Aldous at 8:30.

Also met Dr. King and
Dr. Green and Raphael John

Could not see Dr. Robins as
he was off on a bird class

Mr. W. B. Henderson and Mr.

Stief came at 1 PM we
went with them to the Fish and
game commission to see Thad
Gueber and had a good visit
with him regarding game conditions
in northern part of state.

Then took bus to Elk River
and staid over night until
Mr. Aldous should pick me
up there on his way north

June 3. Aldoys arrived at 10 AM and we drove to Lake Alexander where Dr. Green has his biological laboratory and set traps till after dark.

His camp is on the island out in a big beautiful lake and we set traps on the island as well as the mainland. Put a *Geomys bursarius* and ~~three~~ ^{one} *Microtus* before dark and set a pale trap for owl on island.

Birds and mammals are abundant and the snowshoe rabbits have eaten about all they could on the island, killing most of the young pine ^{of 3} species, tamarack, aspen, willow, maple, red oak, and hemlock, and many other species.

Mr. Cox came at 4 PM.

June 4, Caught a lot of Peromyscus
but nothing else except a Gapus.
Made up a few specimens for
Dr. Green to keep at the station
and to show his men how to do it.
Then went over a big tract
of woods west of the lake where
he is making studies of
rabbits and other native life
in relation to diseases, following
him on a hill tops and paths
with the Greens, going west
to Wadwa and north to
Park Rapids and Lake Itasca.

Set beaver trap just north of
Schoolcraft Island.

Saw deer and elk, raccoon
and snowshoe rabbits, woodchucks,
chipmunks and red squirrels.

June 5, Sunday,

The beavers put poplar branches in the trap so the jaws did not close and got out. Reset trap in another place and at 9 PM found it sprung and empty.

Wend up west arm of lake and out to a much used beaver lake where the dam is cut as far back as they dare go, about 100 to 150 yards. Most of the beavers are gone somewhere else. In PM went over to Squaw Lake in NW corner of park and found many beavers in and above and below the lake but generally they have cut most of the aspen within reach of the shores. Saw two very large old beavers in the pond above Squaw Lake and some of the finest claims I ever saw.

Mammals at Stasea Lake Jan 4 1886.

Moose, one in park

Elk, about 40 in park, passed away

Deer, abundant, too many game beds, not too many further back, no deer here except along lake shores and abundance of feed.

Snowshoe rabbits. Abundant and tame

Cottontails - Common

Gray squirrels, imported, doing well

Red squirrels, a few and very tame.

Flying squirrels

Chipmunks, common

Franticus ground squirrels

Woodchucks, com. very dark brown

Bear, numerous, food mostly eaten should be regulated.

Mustard. Common - go in bear traps

Skunk,

Mink

Weasels

Bats

Saw lots of deer and one small very young fawn that had been captured. Saw many snowshoe rabbits, woodchucks and three porcupines; including one very small and young, probably a week or two old. He cried or squealed when I caught him under my cap and was so scared he would run if we got him. Got my cap full of quills and stuck some in my hands and legs. He was very black all over. Saw two big poplars up a big white pine tree and saw a small white pine 50 feet high, almost completely bailed from near the bottom to the top. One larch trunk was also seen almost denuded of bark.

Saw a few marmots, one in bear trap.

Birds, Lake Itasca Lake, June 4th.
Loons - a pair
Dove chick - heard?
Blue heron, com. Nest colony to south
Bittern
Ruff grouse, com, drumming
Bittern tail, 1
Barred owl heard
Sparrow hawk, 2
Marsh hawk
Turkey buzzard, 1, com
Kingfisher, 1
Pileated woodpecker heard
Dryobates com
Red head,
Sphyrapicus
Gent chest
Prairie & nest
Empidonax
Black terns com
Killdeer a few
Night heron, " "
Mallard

June 4, Monday, Itasca Lake,
Failed again to get the bear
and had to give it up as we can
not wait longer.
Left Itasca Lake at 9 AM.
od drove to Remond, then
Black Duck and north to ~~Wabigoon~~
on Red Lake.

The caribou are said to be up
north of Red Lake and south
near Pine Island NE of here.
Game Warden Walter Hansen says
he saw 4 last March about
5 miles north the north shore of
Red Lake, north of the mouth of
the Deer River. He thinks there are
6 or 8 and possibly 10 in the
now and we are going to see
tomorrow, starting at 5 AM.
A warm day, 90 at 2 PM.

late season

Purple martin, com. breeding, tons.
Barn swallow
Bank swallow
Horned lark, a few
Bluejay, "
Crows, young in nest.
Redwing com
Brewer's blackbird "
Cowbird "
Purple grackle ?
Madowlark, com - -
Oriole "
Orchard oriole a few
Vireo - redg., com
" Bluehead, a few
Wheatear vireo "
Yellow warbler com
Robstart "
Maryland "
House wren "
Short-billed marsh wren "

Chewink com

Roxbeast?

Goldfinch, com.

Song sparrow "

Chipping "

White throat " in swamps, rare

Robins "

Thrush - very? a few

" - hermit, com.

Kingbird com.

Swift "

Mr. Foy who has lived on Pine Island for many years says he has seen 150 caribou around there 30 years and he has seen as many as 18 up north of Red Lake where we are going tomorrow. He is old and rather full and robust but long ago than recently. Says he never knew of a sauter or wolf seen in this state but has seen lots of water and fishers and thinks there are a few now.

Dear are pretty common here and tracks and deer are frequently seen. One of the

Trapper Geo. H. Johnson -

Saw & caught out of a hundred &
about 3 weeks ago, ^{& also captured} in Rapid River
18 miles N & 18 west of Winkler,
probably all there are in that
section.

157, 32, See. 7.

Now having young.

Moose are numerous

Many timberwolves in the
Caribou vicinity ad so far
still there, one caught -

Rid foxes abundant in 1905
to 11, then poisoned for fur
Some fellows had set 100
baited for foxes

Red Lake

Washkish, Minn., June 4-7

Swan, abn on Red lake in migration
Cavada geese, a few in migration
Mallards, a few, 1 old col 7 yrs, in ditch
Blue wing teal, 1
Herring gulls 3
Black tern, 1, a few
Bittern, 1, 2
Blue heron, 1, 2
Killdeer can.
Spotted sandpiper 1
Prairie grouse, a few
Gray partridge " 20 seen.
Spruce grouse, a few
Ruffed grouse, 1, can.
Marshall's hawk 1,
Great horned owl, 1, pubt & feathers
Dryobates
Sphyrapicus 1
Red head sptl. 1
Flicker
Cuckoo 1

June 7, Tuesday, Washkish,

Drove along north shore of
North Red Lake, about 18 miles west
to mouth of Deer River, then
straight north on foot along the main
ditch for 5 or 6 miles to Hilman lake,
where the caribou lives.

This great swamp country
has been ditched on section
lines both ways through an
enormous swamp country.
For about 3 miles back it has all
turned over and generally a pool
to two feet of pale burned out.
Still further back it is native
swamp of leather leaf, Labrador
tea, dwarf laurel, cranberries,
spbagnum and scattered small
black spruce and small tamarack
pitcher plants, sedges, cottongrass
and mosses and a little poor grass.

Red Lake

| | |
|------------------------------|-----------------------|
| Phoebes + 3 nests | |
| Gnzbird | com |
| Great Crest, heard | |
| Empidonax, heard | |
| Nomulus gosselinus | 4 |
| Barn Swallow | com. |
| Purple Martin | " |
| Crows | " |
| Redwing | " |
| Cowbird | " |
| Meadowlark | " |
| Battnass swols | 1 |
| Creebird | " a few |
| Tanager | " |
| Redbreast grosbeak, | " |
| Pine Grosbeak, | " |
| Chewink | Com a few near Burnja |
| Zonotrichia albicollis, com. | |
| Vesper Sparrow | a few |
| Savanna Sparrow | a |
| Song Sparrow | " |

Found caribou tracks at 3 miles back and saw two caribou and lots of tracks at 5 miles back. Saw a bull moose, two cows and 3 calves.

Lots of sharp tailed grouse, one male with 7 young, a hen and many sparrows.

Cloudy and cold. Rained a little at noon.

Rough washing on ditch bank and hard walking in sphagnum

Went up Industrial Ditch No. 30 to section of lateral No. 1. in Sec 5, 155, 32,

Hiltman Lake in SE $\frac{1}{4}$ sec (near center sec)

Sec. 32 - Twp 156 - R 32

| | <u>air lake</u> |
|-----------------------|-----------------|
| Chipping sparrow | a few |
| Field sparrow, | " |
| Juncos | com - |
| Goldfinch | " |
| English sparrow | " |
| Red-eyed vireo | " |
| Maryland yellowthroat | " |
| Yellow warbler | " |
| Redstart | " |
| Marsh wren, S bill, | 1 |
| House wren | a few |
| Blue jay | 1 pair |
| Robins | abu. |
| Grackles | 3 |
| Catbird | said to be com. |
| Bobolink | 2 |

| Plants Workiosk, | |
|----------------------------|----------------|
| Pinus strobus ssp. strobus | com |
| " redwood, | com |
| " otolus | com. |
| Juniper | abu. |
| Aspen | abu. |
| Birch | com |
| Balsam poplar | " |
| Betula allegh. | " |
| " glandulosa | " |
| Bald wood | " |
| Beech | " |
| Birch oak | " |
| Red oak | " |
| White ash | " |
| Black ash | " |
| Maple, 3 sp. | " |
| Beech | ? abu. |
| Picea rubra | abu. |
| " nigra | " |
| Abies balsamea | " |
| Thuja | common locally |
| Mountain ash | com. |
| Pin cherry | " |
| Choke cherry | " |
| Amelanchier | " |

Rid Lake

| | |
|-------------------------------|---------------|
| Willow | - many, abas. |
| heather bog | " |
| Lobrador tea | " |
| Kalmia | " |
| Cassandra | " |
| Cranberry | " |
| Aralia polystachys nana minor | " |
| Pitcher plants | " |
| Sphagnum | " |
| Polytrichum juniperinum | " |
| Eupatorium rugosum | in one place |
| Cornus stolonifera | com |
| " canadensis | " |
| Bedded Maple | " |
| Ribes | " |
| Galaackie | " |

| | | |
|---------------------------------------|-------------------------------|-----------------------|
| Rangifer | <u>Rid Lake</u> 8 reported | 2 seen, tracks com |
| Moose in big swamp | | 9 seen, 3 calves |
| Deer, 2 seen | | about 10 reported |
| Showshoe Rabbit | | com |
| Porcupine | | |
| Woodchuck | | holes com |
| Franklin ground squirrel | | 1 |
| Beaver | | 1 in |
| Muskrats | | com. |
| Mink | | several, 1 push sign |
| Wolf | 9 caught, old sign, winter | |
| Coyote, tracks com. near lake | | |
| Raccoon, tracks at lake | | |
| Grounds | | a few on sandy ridges |
| Fisher | , said to be a few | |
| Martins, probably all gone, | | |
| Wolverines, more heard of | | |
| Panther | " " " | |
| Bear, a few, one ♀ + 2 cubs seen | | |
| Red squirrels, com. | | |
| Fox, all gone, poisoned for fur, 1911 | | |
| Otter, a very few | | |

June 8. Left Red Lake 9 AM,
returned to Bemidji and to
Cass Lake. Cool and clear,
and the country is beautiful after the
rain, dense with verdure and
bright with flowers.

Game birds are abundant
little trapping but some fields of
grain and many gardens.
Some good clovered alfalfa
fields and a few dairies.
Very little lumbering.

Many summer cottages and
resorts along the lake shores.
and many beautiful lakes.

At Cass Lake stopped at
Mrs. C. M. Taylors, a pleasant
and impulsive place to stay.

Went out to Aldous' rabbit pens
but found most of the rabbits had
escaped. He will have to catch
them over again.

June 9 Cass Lake,

Went out about 10 miles N.E. of Cass Lake on the Burnt Lake, Sokat road to the Jack Smith Plantation planted to young Norway pines in the same place I went over in Sept. 1930. About 100 acres of burnt over land on sandy low ridges were set out and about 2/3 ac. of the young trees are living after 1 to 2 feet high. Some dead trees still standing have been nipped by snowshoe rabbits and a few by deer. Most of the dead trees found ^{burnt out} dead of disease as have many of the prairie willow, ^{other} willow, ragged, and dawker, jersey tea, pin cherry, choke berry, rose and other bushes.

Grass and low vegetation is dense and the brush is coming in too thick for the good of young trees but the pines that have lived so far are pretty safe.

Cass Lake

| | |
|--------------------|-----------------|
| Deer | com |
| Snowshoe rabbits | " |
| Cottontails | a few |
| Gray squirrels | " |
| Red squirrels | com |
| Chipmunks | " |
| Citellus, Thimble | a few |
| Citellus franklini | " |
| Woodchucks | " |
| White foot mice | com |
| Whiskers | " |
| Erethizon | " |
| Muskrat | " |
| Bear | now rare |
| Porcupines | a few, no signs |
| Groundhogs | com. |
| Skunks | " |

Snowshoe rabbits live in the tamarack and spruce swamp nearby and have cut some small jack pines on the open high ground but only one of probably a hundred noways had been ripped at the top by rabbits.

A few cottontails also occur but no damage noted.

Our all common and a few tracks seen but no fresh ripping on the Norway pines. They spend most browsing on *Ceanothus*.

Anemone and *bagley*, very little on aspen or willow.

Ceanothus is abundant and a favorite food, so is *Anemone*.

A few pocket gopher hills are scattered over the sandy upland but no damage noted. Probably a few ground squirrels and chipmunks and plenty of mice.

Cass Lake

in the grassy washes.
Red squirrels only in the swamp.
Seed trees few and widely scattered
Very little of the damage can be
attributed to animals mostly
to poor planting, growth and
cover competition.

The land should be replanted
after burning over or in
broad shallow furrows of a
12 inch breaking plow.
Trees should be planted to
allow for a 50 percent loss, or
more. The soil is ideal for
heavy timber growth as shown
by old forest trees.

Went to rabbit pens in PM
and over the walked trees in noted
woods to check damage by deer and
snowshoe rabbits. Found a moderate
loss but not very serious -
Set traps -

Cass Lake June 9-10

| | |
|---------------------|------------------------|
| Zoo | a few |
| Spoonbill, 1. | 3 |
| Fallen egg ducks | 3 |
| Ringneck " | 3 |
| Geaux ♂ | 1 |
| Bluewing teal | 2 |
| Black turn | abu, nesting |
| Pelican | reported from 9 |
| Ruffed grouse | com, nesting, drumming |
| Ringneck pheasant | 1♂, |
| Buteo | " |
| Bubo | " |
| Pileated woodpecker | heard |
| Dryobates | " |
| Colaptes | com |
| Kingfisher | 1 |
| Cuckoo | heard |
| Kingbird | com |
| Phoebe | " |
| Empidonax | com |
| Great crest | heard |

| | |
|--|-----------------------|
| Barn swallow | com |
| Roughwing | " |
| Martin, | nesting in trees, com |
| Tree swallow | " " " |
| Brown thrasher | com |
| Catbird | " nest |
| Horned Thrush | " |
| Vireo | a few |
| Am. Jay | com |
| Towhee | com |
| Quail | a few |
| Redwing | com |
| Cowbird | " |
| Meadowlark | " |
| Oriols | " |
| Tanagers | " |
| Red-eyed vireo | " |
| Norbling vireo | " |
| House wren | " |
| Garden bird | heard |
| Yellow warbler | " nest + 4 eggs. |
| Redstart | " |
| Macgillivray's ^{quothroat} sparrow | a few |
| White-throated sparrow | " " |
| Song sparrow | " |

Cass Lake June 9-10
Chipping sparrow, com & nesting
Vesper sparrow " "
Goldfinch a few

June 10, Cass Lake,
Out to traps, got 2 Baking
rol & *Micromys minutus*.
Wrote reports all afternoon

June 11, Got mail ad started for
Ely. via Grand Rapids, Hibbing,
Virginia City ad Tower, arriving
at Ely about 4 P.M. Saw Foster
wen ad talked over plans
for working this part of the state.
Put up at Forest Hotel.

June 12, Sunday.

Went out to Newton to see Bill
Hansen, District game warden
ad got much information on
moose ad caribou ad deer
ad beavers. He is a very intelligent
man and a good warden. I showed
him how to catch beavers alive in
1923. Set traps.

Cass Lake

Ely, Minn. June 13-15 -
Zoon - several heard
Dabchicks, - one heard
Herring gull, 2 on Ninemile lake.
Golden eye, 15 seen on Superior 13.
Belted kingfisher, a few.
Ruffed grouse, Common, yg. seen April 13.
Spruce grouse, A few in places.
Sharp tailed grouse, A few here.
Fist hawk, one on Ninemile lake, Jun 15.
Golden eagle, one mounted
Bald eagle, a few, photo of yg & 1 mounted.
Burrowing owl, this seen.
Goshawk, A few, one mounted.
Bubo, one heard in road, half grown
Snowshoe rabbit in stream.
Marsh hawk, one on road here.
Kingfisher, a few, 2 nests.
Pileated woodpecker, a few. scarce.
Flicker, com.
Dryobates, a few
Cuckoo.

June 13, Ely,

Drove down to Berth Lake
Hot Iron Lake col a circle
of tree plantations to see the
effect of rabbits and deer and
porcupines and mice on the
young conifers that had been
set out under varying
conditions.

Rabbits and deer had
injured and killed many
young pines and spruce
and in places had taken
more than half the trees.
In other places very few.

In one plantation of white
and Norway pines the porcupines
had killed or seriously injured
about half the trees on 40 acres
or more. I counted 80 trees
that were practically killed.

Birds - Ely, Minn. June 13-15
 Kingbird, com
 Contopus torquatus, 1 on Wood R., June 15.
 Phoebe, com. nesting.
 Empidonax " "
 Perisoreus, a family on Portage R., June 15.
 Blue Jay, com.
 Crow, "
 Purple grackle, "
 Redwings, "
 Cowbird, "
 Meadowlark, "
 Oriole, a few
 scarlet Tanager, "
 Red eye vireo, com
 Warbler, a few
 Chimney swift, com in Ely
 Night hawk, "
 Purple martin, "
 Barn Swallow, "
 Bant., "

June 14, Ely, Minn.
 Went to traps early and
 got 2 Sympetrum, 2 Thriothis,
 pennsylvanicus, 1 little Sorex
 and a lot of Blarinas,
 all out in or near the
 sphagnum swamps about 4
 miles SE of Ely.

Returned to Ely, got grub
 and started on the road
 north of Burntside Lake
 and on to the ~~Mississippi~~ River
 Cabin on the St. Croix
 Trail. After lunch drove
 on to Cold Springs station
 some 8 or 10 miles and then
 returned to the Portage River
 cabin and set the beaver
 traps and made up specimens.
 Saw many deer, lots of moose
 tracks and some bear tracks.

Ely, Minn.

House wren, com

Shortbilled marsh wren, 1 heard on road to Ely,
Winter wren, 2 heard on Moose River.

Catbird, 1 seen

Brown thrasher, seen on road in.

Robins com.

Bluebird, 1 on road in.

Ovenbird, com.

Maryland gnatcatcher, com.

Hollow warbler abn.

Redstart, a few

Rosebreast grosbeak, seen

Chewink?

Goldfinch, com.

Whitethroat, "

Song sparrow "

Chipping sparrow - 1 heard, 1 feeding

Vesper sparrow, a few along road.

English sparrow, abn.

Jan 15. Portage River Cabin.

No beaver in trap, took it up.

David went 3 1/2 miles to Moose River
ad took a canoe down to King Moose
Lake, about 3 miles, probably 4 by
crooked cut turns. A beautiful lake,
one cow moose, many tracks,

6 deer ad hundreds of tracks.

Then beaver houses along Moose

River ad 19 dams, mostly east
through forest, ran through
12 of them ad carried canoe over 7.
Probably 20 beavers along river
now but should be 100.

Lots of muskrat ad mink tracks

One porcupine ad several tracks

One porcupine climbed our cabin
seem door in night.

Chipmunks & woodchucks ad red
squirrels common.

Aug 29 - 1913
Alaska

Canada geese,^{blue jays,} clay-colored redpolls, northern wrens, olive-sided flycatchers, winter wrens, juncos, white-throated sparrows, tanagers, spruce grouse, ruffed grouse, and many other birds were seen or heard or reported. The country is pure Canadian zone in fauna and flora.

Porcupines, woodchucks, muskrats, beavers, snowshoe rabbits, marmots, red squirrels, common martens, country, beautiful lakes and streams and timber. Lots of fish and game. Bear traps at Postage River. No woodticks, many mosquitoes and gnats.

~~Grand Marais - grayplant flats, Sawbill Lake~~

Loons, a few nesting

Shelducks, a pair, nest here

Black Mallards, and yg. on Harriet lake,

Great Blue Heron, a colony on nest beds. a few her-

ons, great horned & great gray reported

Pileated woodpecker, heard

Hides com.

Ruffed grouse, com.

Spruce grouse, a few

A rocke nest at Lake Cobin.

Empidonax, heard

Redeye vireo, singing

Osw., a few, nesting

Canada jay. a few

Blue jay

Grackles

Horntail Thrush

com.

Vireo

a few.

Winter wren

"

Horse wren

"

Song sparrow

com

Phill throat

"

June 14 Ely.

Went to see Dr. E. J. Thompson
and talk over moose ticks.

He had many specimens and
has had the ticks identified as
Dermacentor albipictus.

Has many eggs masses not yet
hatched. Does not know as
the ticks kill moose by draining
itality or by disease,
says the ticks all have the
moose in May. Wants to
know intermediate host of
ticks, 15 dead moose reported this year.

The dead moose should be
mapped and dated to define infested
area. Many different organizations are
studying the moose and the general

Drove down to Halfway Ranger Sta.
and examined the natural reproduction
under conditions that had been much
injured by effects of deer.
Had dinner there.

~~Dear Mr. & Mrs. Gauthier at Sawbill Lake~~

Collected Salix pedicularis in sphagnum
swamp south of Ely, abundant in all the
swamps, shrub 4 ft high, looks like
Vaccinium.

Then drove on to Finland
and Little Maria and Sotroddet
and back north about 25 miles to
Sawbill Lake at a new cabin
being built for a ranger station.

A beautiful lake with clean
birch shores, some beavers, 4
beaverholes seen, a pair of
loons nesting and bellring.
Moose cows out on the shores
here and grouse abundant,
Pike sel numerous, caught 6
after supper.

Porcupine swimming lake.
Horn cooed dry on next lake, Altomaki.
Bear tracks window + alight, shot by ranger.
Some fishers, no martins or porcupines or
raccoons, some minks + weasels tops.
Many wolves and probably some coyotes.
No caribou here but a few bobcats.

~~Grand Maria & Sawbill Lake~~
Grand Maria & Gunflint Lake.

Loons, a few breeding
Gulls, abn. breeding on islands in L.S. a few on lakes
Mergansers, a few breeding
AM. Golden eye, " "
Blue heron, a few.
Ruffed grouse & yg. com
Spruce grouse, several
Bald eagle, 1 near Little Maria.
Fish hawks, pair & nest Beaudoin lake.
Goshawks, 2 at Beauskin L. ?
Horned owl, reported
Pileated woodpecker. 2 heard on Beauskin L.
Flickers, com.
Kingfisher, a few
Canada jay. "
Blue jay - com.
Corm
Grackles a few.
Swift, a pair in Grand Maria.
Purple Martin a few
Tree swallows .

June 17 Sawbill Lake.

Firs of as at 6 picked for breakfast,
delicious. Eatmias com.

Drove back to Jaysee crossing and
took the oeder east to Cascade
where we staid to lunch.

Two moose found dead around Cascade
last spring, apparently from ticks.
Got a cow moose skull. Callot first author.
Saw two deer. No reindeer tho a
few are running at large near
J.C. Crossing. All badly infested
with ticks and some have died
of ticks.

The Cascade country has been
lumbered and burned recently
and is very open. Many deer
and moose.

The five moose at Cascade in flying
up to Gunflint this forenoon saw 20 moose.

We saw and photographed two fine
bucks on return to J.C. crossing.

~~Grand Marais & Gunflint Lake.~~
~~Grand Marais & Gunflint~~

Phoebe, breeding at Beaskins
Empidonax, com.
Winter wren, a few
House wren, "
Vireo, ridge, com
Tanager, a few, Northern Light Lakes.
Over bird, " com.
Yellow warbler com.
Thrushes, Hermit warms, a few
Robins, com.
Pine grosbeak, reported in winter, Beaskin
Juncos, a few
Dipping sparrow, "
Swainson's, " "
Garry Sparrow com.
White throat, "

Drove back to Schroeder on
the shore lake Superior and then
east 32 miles to Grand Marais
Very hot at J C Clasing Out
cold along lake shore.

Stopped at Arrowhead Hotel,
Ed Munstedt proprietor.

Airplane came in & landed in
lake to load up wild supplies for
fire fighters back in forest on other
lakes. The men mostly out on
fire fighting lines.

| Grand Marais & Gunflint | |
|--------------------------|----------------|
| Grand Marais to Gunflint | |
| White pine | abn. |
| Norway pine | " |
| Jack pine | " |
| Spruce - black + white | abn. |
| Abies | " |
| Larix | " |
| Thuja | " |
| white birch | " |
| shrubby birch | " in swamps |
| ✓ Aspen | " |
| Balsam poplar | " |
| ✓ Salix | " many species |
| Alnus | " |
| Ash | " |
| P. Mountain ash | " |
| Fir durry | " |
| Chokeberry | " |
| Gerris berry | " |
| Common cranberry | " |
| " Sideratia | " |
| Oak rubrum | " |
| ✓ Acer spicatum | " |

July 18 Grand Marais, Saturday.
 Rained hard in night col well
 over pieroon. Cold and chilly.
 Drove north to Northern Lights
 Lake, Bearskin Lake, Hungry
 Jack and Gunflint lakes.
 Saw beautiful west cobins on
 Gunflint and Hungry Jack lakes
 and a nice little cabin on Bearskin
 kept by Mr. & Mrs. A. J. Allen,
 Box 337 Grand Marais.

Stayed at ranger cabin at
 Bearskin lake and went up lake
 fishing and got moose skull at
 east end.

Saw some deer along road
 Moose said to be common.

Pure Canadian zone all the way - some
 good forest but mostly second growth
 of birch and popple and pincher.

Grand Marais to Grand Portage

Grand Marais + Grand Portage Lakes.

| | |
|--------------------|----------------|
| Rose | abn. |
| ✓ Red raspberry | " |
| ✓ Thimble berry | " |
| Strawberry | " |
| Highbush Cranberry | " |
| Viburnum | com 1 |
| Elderberry | " |
| ✓ Blueberry, 3 | " |
| ✓ Hazel | " |
| Bearberry | " |
| Toweree | " |
| Sweetgale | " wood shores |
| Lobalor tea | abn. in swamps |
| Leatherleaf | " " |
| Laurel | " " |
| Andromeda | " " |
| Cranberry | " " |
| Limac | " on uplands |
| Gaultheria | " .. |
| Chionophila | " " |
| Pyrola | " " |

June 19, E. Beaskin Lake.

Got moose skull and started back. Saw 3 moose on Northern Lights Lake, all out in water. One swam back a mile and went under often and fed on bottom. They stay under 10, 15, 20, & 30 seconds while feeding.

Swim in mud or water, feed under water and go out of sight. feed on lilies or potomagetus & other water plants.

Powerful, graceful if ungainly and prehistoric in appearance.

Drove to Port Arthur in PM arriving at 8 o'clock at Hotel Mariaggio but could get no information about boat to Isle Royal. Same kind of country all along north shore of lake, timber mostly popple & birch & spruce & fir.

Grand Marais & Gunflint Lake.

| | | |
|-------------|------|--------------|
| Clintonia | abn. | - in woods |
| Cypripedium | com. | " |
| Pteridium | " | " |
| Cladonia | abn. | |
| Sphagnum | " | |
| Hypnum | " | |
| Polytrichum | " | |
| Mosses | " | |
| Cowslip | " | - in blossom |
| Buttercup | " | " |

| | | |
|------------|------------------------------|---|
| Apple, | - in blossom at Grand Marais | |
| Chokeberry | " | " |
| Dandelions | " | " |
| Snowball | " | " |
| Lilac | " | " |
| Spirea | " | " |

June 20 Port Arthur, Canada.
Couldn't get a boat to Isle Royal until June 27, and couldn't take a private tug because there is no customs officer on the island and we are not allowed to land from Canadian sail. Will have to return to Grand Marais or Duluth to go over and may have to give up the trip.

A remarkable range of volcanic mountains along the Canadian shore of Lake Superior stand out in much worn turrets and buttes and necks of basalt over which the glacier has plowed and ground away all but the hardest parts - having picturesque cliffs and towers and headlands.

Got baggage left at Grand Marais and drove on to Duluth, arriving at 7 PM. Left

Port Arthur at 10:30 AM ad stopped half an hour at Pigeon River for lunch ad an hour at Grand Marais.

The most scenic part of the trip is along the lakeshore from Little Marais to Duluth, with high shores ad headlands, rocky points ad islands ad many canyons, falls ad cascades. The road keeps near the shores ad is well built. The country is fresh ad green ad the air cold ad sharp. There are some little farms ad towns but mostly cottages ad woods. It is a fine summer country but no place for me in winter. 217 miles from Port Arthur to Duluth.

July 21 Duluth to Elk River
Left Duluth at 8 am
and drove out to
and beyond to the Forest
Experiment station of the U. S. M.
where Dr. King has his game
laboratory for studying
diseases and natural enemies
of the ruffed grouse. Dr. King
was not there and his last
young grouse had died so
we did not stop long.
Continued on to Mission Creek,
then west and south to Melrose
where I shipped the two wood
heads and then on to Elk
River where I stopped for the
night and took the first
train to St. Paul next day.
Arrived at Elk River at 4 PM
Had supper with Leslie Bailey who
took me to Meadow Hall in evening.

~~June 22~~ Elk River to Minneapolis
Spent part of day at Elk
River and drove to
Minneapolis in afternoon.
Went to Nicollet Hotel
where arrangements were
made to meet Dr. Robert
in morning.

Country beautiful and green
and full of wild roses and
various flowers. Corn a
foot high and early potatoes
blooming. Strawberries
ripe having well begun.
Crops good! Farmers working
hard but for little or no
returns!

June 23 St Paul et
Winona

Dr. Roberts picked me up at
Nicollet Hotel and took me
over to University Museum
where we met Aldous and had
a long talk over game
and wild life conditions in
the state.

Saw Dr. Green and went to
lunch with him and talked
over rabbit and game studies
and diseases and saw his
laboratory and working pictures
of rabbits.

Then saw Mr. Cox and
talked over caribou moose,
deer and beavers with him
but Fred Super was away
so we could not see him.

Went out to Crows Park and
saw the wild animals, the elk

and buffalo were in fine condition, but several of the deer were mangy as well as woodchucks, prairie dogs and some of the foxes.

The animals are generally unprotected from sun and heat and very uncomfortable and badly housed.

Had dinner with Aldous and his lovely family and caught a 7:45 train out of St Paul.
A beautiful day, country fresh and green and beautiful.

July 2nd stopped off at Wausau Wisconsin at 3 AM and ran up to Zumbrowick to see the traps being made by the American live trap co. - but found few of practical importance being made at present. The folding live trap is their best trap and is good for muskrats, cats and small fur bearers but is expensive and complicated. Was hoping to get some line out better traps for general use.

Returned to Wausau on next train and continued to Milwaukee.

A pleasant day, rain in evening -

June 25 Arrived Chicago
8:30 AM and had to wait
till 1:40 PM for train
to Washington.
Wrote reports in Union
Station.

June 26 Arrived at Washington
8:40 AM on Capital Limited
B. & O. a delightful air cooled
train with good service -

June 27 + 28, 1932
At Washington D.C.
Warm days, up to 92 and 93,
but not uncomfortable.
In New Building.

June 30 ~~30~~ Working on reports.
Not so warm.

July 1 and 2 Finished reports
on mammals of northern
Minnesota.

July 15 Left Washington at 4:50 PM and drove to Turay by 8:30 Went through Turay Cove after 9 PM and was surprised to find it the best cave in the east, except that the bats are all screened out. It is not large or extensive but has a great profusion of massive formations in good condition. The colors are all stained by yellow clay as are all eastern caves, but the forms are massive and old and beautiful.

The temperature is said to be 54 all the year. There seems to have been no original opening but cold air coming out of the rock led to its discovery. Not likely to have fossils or life and life.

July 16. Staid at a very comfortable hotel, the Minstrel, and got an early start for the Girl Scout Camp beyond Mt. Solon, arriving at 9:30 AM.

Was immediately called upon to catch and show a rattlesnake found in camp. Showed how his fangs worked and how the venom spurted out. Then made a good specimen of him. Set traps and explored and caught a few other snakes. Betty had a live Eudoxus in a cage, apparently the first record for Virginia.

July 28 - The Eudoxus escaped on upper piazza and probably got into back yard.

July 17 - Sunday, Scout Camp

May flather,

Went to traps but caught nothing. Set more traps and left for Butte & look after. Got a black swab.

Came back in evening to Washington, Virginia, just east of Blue Ridge and staid all night. Good roads and beautiful country.

144 miles to Girl Scout Camp

July 18, Started at 7:30 and reached

Washington DC at 9:15

A beautiful morning and no traffic.

Brought a live Eudromia home for study.

July 26 Washington D.C.

No real hot weather up to present time and now delightfully cool. On several days the temperature has gone up to 92, 95 and on one day to $97^{\circ} F$. It generally ranges from 87 to 95, with cool nights and delightful mornings - A rain every few days cools off the air and when it gets warm again there is more rain. Some days are rather damp and steamy after the rains but generally the air is dry and pleasant.

Still many people kick about the hot weather here.

I'd like to bring in just any hot day - say 112, and let them see what it is like.

Aug. 4, 1952 Washington
Read Wm M. Rush's Elk report this
forenoon. It is excellent!

In PM went with Lindstrom and
Day & took moving pictures of bad
methods of conservation, setting mustard
traps out of season and snaring rabbit.
Caught the rabbit in snare but he
was a big tame Belgian and not very
active - Got all jiggers.
Pleasant weather, 88° maximum.

most no deeper than 20 feet
as ground there is very hard,
pancake dry soil a small stream
does not pass so far or long enough

Afternoon on road saw many
birds as a lot of
sparrows, robins, blue
jays, thrushes and other song
birds, swallows, etc.
Saw deer tracks in the
forest floor or road
and heard many birds
of all kinds singing.
Also saw a great many
flies and mosquitoes.
The weather was
hot, humid and sticky.
Food was wrapped up
in paper and was
soon wet and ruined.

- 108 -

Aug. 5, Drove from Washington
up to Harrisonburg Va., on
our way to the Girl Scout Camp
and stayed all night at the
Ashby Park Inn, a nice little
place at the edge of town.

Aug. 6 - Drove to Mt. Solon and a
few miles beyond to the Girl Scout
Camp, arriving at 9 AM. Saturday.
Set traps and helped make up
specimens. Gave talk in evening.

Aug. 7, Sunday. Caught nothing.
Went on Nature hike with a bunch
of the girls. Saw but little
of interest as we did not get
off till 11 AM. Saw one Black
Vulture.

Left camp at 3:40 and drove
to Washington DC at 9:15.
144 miles. Good road and
pleasant drive.

Property归属

Mr. M. J. Ladd, Jr., Esq., Boston,
from his perspective, especially
that it reflects the society's
desire to see its members
in the situation itself, fiscal, etc.
The purpose is to make it
the cause in his family and thus
was advocating for a family as
they effected. It was on the
way around when a local lady
had given a speech on the
Year was a little different
as she was with us
and would be at the
up The collections by the
This year with the greatest effort
(Gathering of old)

Property归属

of any particular community to purely social
and the social organization for long enough to have
seen the need for a change in such manner.

On the 2nd of June 18, there was a
general election & Mr. Johnson & Mr.
T. C. Gandy were elected. Mr. Gandy
was chosen as mayor, & Mr. Johnson
as recorder. Mr. Gandy is a man of
great energy & intelligence, & will
do much for our town.

we said to be necessary
for the first half of the year
so from 17 we would get 15 more
at grand total to cover
our costs.

But we have our expenses
which cost quite a sum per month
up to sufficient for bed. Many
expenses this season, but it is
the time of the year bed soon
need that bed did

and will be paid out full month
that bed did it does in which is only
there. No part the month out all the
year found above this amount
but we can take a trifling sum
less in later notes the balance
paid. Now the time of full
month to receive before the
beginning comes back to G.C. January
date but now we have the 1st
on Jan 17, we went out to small

in field.
should set you to doing soon
by the 1st of June we expect you
the next full moon (15th) was
seen in Minnesota about 15,
probably late at night or even
near the Mexican border. now of
these numerous along the coast
of Lake Erie. We find them in soft
dole soil near water or in soft
dunes along shores down to soft
soil just off the beach. Many birds
were out in open country for these
and one did not hear any.
There bed out of sight, out of earshot,
but - first field & between hills, out of
sight, June 7, 1932, on the way
to a meadow, 3 miles, to cover all
the ground through a field road,
Whales have been seen in
Whales - Red tail / white

Saints have been canonized all over the country mostly to tell stories of saints but we build the memory houses also. And usually before you go around there's like a Melville house or something like that or there's about 30 houses also, the last of them being the one we built.

This call now is a short, soon
falls a long, drawn-out sound
as the first note is heard as a mass

of fragments, suddenly like a tolling bell.
First and in some measure so sharp
that it is almost like a hammer blow.
Second with all the force in action
comes now.

Would be excellent and with this
would be a good model.
Now our alarm will sound, about
this intensity and measure to
this may be done - we add in
of the middle of either part first.
from L, now follow R, & suddenly
in our two sets hands hold a
Gtr. It follows the first sounds up and
all seem lost first, & soon by
second & 4th & watch upper left hand,

when I play a note

78 N.W. 166, 40, 21, 13
69 N.W. 180, 17, 18, 13
110359200, 95, 40, 12, 11

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